

CONCRETE BATCH AND YIELD COMPUTATIONS

BATCH QUANTITIES – ONE CU. YD. BATCH							
Property	Cement	Water	Sand	Coarse Aggregate			Total
Proportion by weight							
Batch weights, lbs. (Aggr. sat. & surf. dry)							
Total moisture in aggr. % by weight							
Absorption (sat. factor) of Aggr., % by weight							
Surface moisture in Aggr. % by weight (by test or assumed)							
Surface moisture in Aggr., lbs. (% x wt. of Aggr./100)							
Batch weights, lbs.							

NOTE:

If surface moisture of aggregate is determined directly by test or assumed, the lines for total moisture and absorption are omitted.

YIELD – ONE CU. YD. BATCH							
Property	Cement	Water	Sand	Coarse Aggregate			Total
Batch weights, lbs. (Aggr. sat. & surf. dry)							
Specific gravity (assumed for cement, by test or assumed for aggregate)							
Absolute volume, cu. ft. $= \frac{\text{Wt.}}{\text{sp. gr.} \times 62.4}$							
<p>Yield = cu. ft. concrete per sack of cement <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> = <u> </u> cu. ft.</p> <p>Sacks cement per cu. yd. of concrete <u> </u> = <u> </u> sacks</p> <p>Yield = $\frac{\text{Tot. wt. materials}}{\text{Unit weight of concrete, lbs./cu. ft.}}$ = <u> </u> = <u> </u> cu. ft.</p>							